

**Amendments to the Claims:**

*This listing of claims will replace all prior versions, and listings, of claims in the application:*

**Listing of Claims:**

1. – 17 (Cancelled)

18. (Currently Amended) A method of evaluating a tentative location for a fixed subscriber communication site of a wireless communication system using a wireless testing system, said wireless testing system comprising a testing antenna for communicating wireless communication signals with a transmit antenna and a receive antenna at a base station, an adjustable mount associated with said testing antenna for orienting said testing antenna in a plurality of pan orientations and a plurality of tilt orientations, an adjustable boom attached to said adjustable mount for positioning said testing antenna at a plurality of heights, a signal measuring device associated with said testing antenna and a signal attenuator associated with said testing antenna, said method comprising:

at said tentative location

a) positioning said testing antenna such that an angle  $\alpha$  defined by said testing antenna as a vertex between said transmit and receive antennae is 1.5 degrees or less;

b) adjusting tilt, pan, and height of said testing antenna to exchange wireless communication signals with said transmit and receive antennae;  
and

- c) measuring a characteristic of said wireless communication signals received by said testing antenna by integrating a power signal of said wireless communication signals across a frequency band associated with said wireless communication signals;
- d) attenuating said wireless communication signals until said testing antenna no longer receives said wireless communication signals from said transmit antenna;
- e) calculating ambient atmospheric and meteorological conditions corresponding to said amount of attenuation based on a distance between said testing antenna and said base station; and
- f) comparing said calculations of said ambient atmospheric and meteorological conditions to a predetermined threshold level required to maintain a level of service required for communications with said base station when said ambient atmospheric and meteorological conditions exist,

wherein, if said level of attenuation exceeds said threshold level, said tentative location for said fixed subscriber communication site is acceptable.

19. - 25. (Cancelled)

26. (Previously Presented) A method of establishing an optimal location for a fixed subscriber communication site for a base station having a transmit antenna and a receive antenna, comprising:

at a tentative location for said fixed subscriber communication site

- a) positioning a testing antenna such that an angle  $\alpha$  defined by said testing antenna as a vertex between said transmit and said receive antennae is 1.5 degrees or less;
- b) adjusting tilt, pan, and height of said testing antenna to exchange wireless communication signals with said transmit and said receive antennae; and
- c) measuring a characteristic of said wireless communication signals with said communication unit.

27. (Currently Amended) The method of establishing an optimal location for a fixed subscriber communication site, as claimed in claim 26 wherein

said testing antenna, receive antenna and transmit antenna are located relative to each other to form a right angle triangle;

$\tan \alpha$  is less than or equal to a ratio comprising

a numerator comprising a distance from said receive antenna to said transmit antenna; and

a denominator comprising a distance from said testing antenna to one of said receive antenna and said transmit antenna.

28. (Previously Presented) The method as claimed in claim 27, wherein said characteristic is power of said wireless communication signals integrated over a frequency band associated with said wireless communication signals.

29. (Previously Presented) The method as claimed in claim 28, further comprising  
attenuating said wireless communication signals until said testing antenna  
receives practically none of said wireless communication signals transmitted by  
said base station;  
calculating ambient atmospheric and meteorological conditions corresponding to  
said amount of attenuation based on a distance between said testing antenna and  
said base station; and  
comparing said ambient atmospheric and meteorological conditions to a  
predetermined threshold level required to maintain a level of service required for  
said testing antenna to communicate with said base station when said ambient  
atmospheric and meteorological conditions are present between said base station  
and said testing antenna.

30. (Currently Amended) The method as claimed in claim 26, further comprising  
repeating steps a), b) and c) at a second location;  
comparing characteristics measured at said tentative location and said second  
location; and  
selecting one of said tentative location and said second location as said optimal  
location based on said step of comparing characteristics.

31. (Previously Presented) The method as claimed in claim 26, further comprising  
variably attenuating said wireless communication signals before evaluating said

characteristics of said wireless communication signals to simulate ambient atmospheric and meteorological conditions around said wireless testing system.

32. (New) A method of establishing an optimal location for a fixed subscriber communication site for a base station having a transmit antenna and a receive antenna, comprising:

at a tentative location for said fixed subscriber communication site

- a) positioning a testing antenna such that an angle  $\alpha$  defined by said testing antenna as a vertex between said transmit and said receive antennae is small enough to ensure that transmissions received at the base station from both said transmit antenna and said receive antenna are within half power points of an antenna pattern at said base station;
- b) adjusting tilt, pan, and height of said testing antenna to exchange wireless communication signals with said transmit and said receive antennae; and
- c) measuring a characteristic of said wireless communication signals with said communication unit.

33. (New) A method of evaluating a tentative location for a fixed subscriber communication site of a wireless communication system using a wireless testing system, said wireless testing system comprising a testing antenna for communicating wireless communication signals with a transmit antenna and a receive antenna at a base station, an adjustable mount associated with said testing antenna for orienting said testing antenna in

a plurality of pan orientations and a plurality of tilt orientations, an adjustable boom attached to said adjustable mount for positioning said testing antenna at a plurality of heights, a signal measuring device associated with said testing antenna and a signal attenuator associated with said testing antenna, said method comprising:

at said tentative location

- a) positioning a testing antenna such that an angle  $\alpha$  defined by said testing antenna as a vertex between said transmit and said receive antennae is small enough to ensure that transmissions received at the base station from both said transmit antenna and said receive antenna are within half power points of an antenna pattern at said base station;
- b) adjusting tilt, pan, and height of said testing antenna to exchange wireless communication signals with said transmit and receive antennae;
- c) measuring a characteristic of said wireless communication signals received by said testing antenna by integrating a power signal of said wireless communication signals across a frequency band associated with said wireless communication signals;
- d) attenuating said wireless communication signals until said testing antenna no longer receives said wireless communication signals from said transmit antenna;
- e) calculating ambient atmospheric and meteorological conditions corresponding to said amount of attenuation based on a distance between said testing antenna and said base station; and

f) comparing said calculations of said ambient atmospheric and meteorological conditions to a predetermined threshold level required to maintain a level of service required for communications with said base station when said ambient atmospheric and meteorological conditions exist,

wherein, if said level of attenuation exceeds said threshold level, said tentative location for said fixed subscriber communication site is acceptable.